

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P450612

Luminaire Tested: **GALN-SA1B-830-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450612
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-830-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4567 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

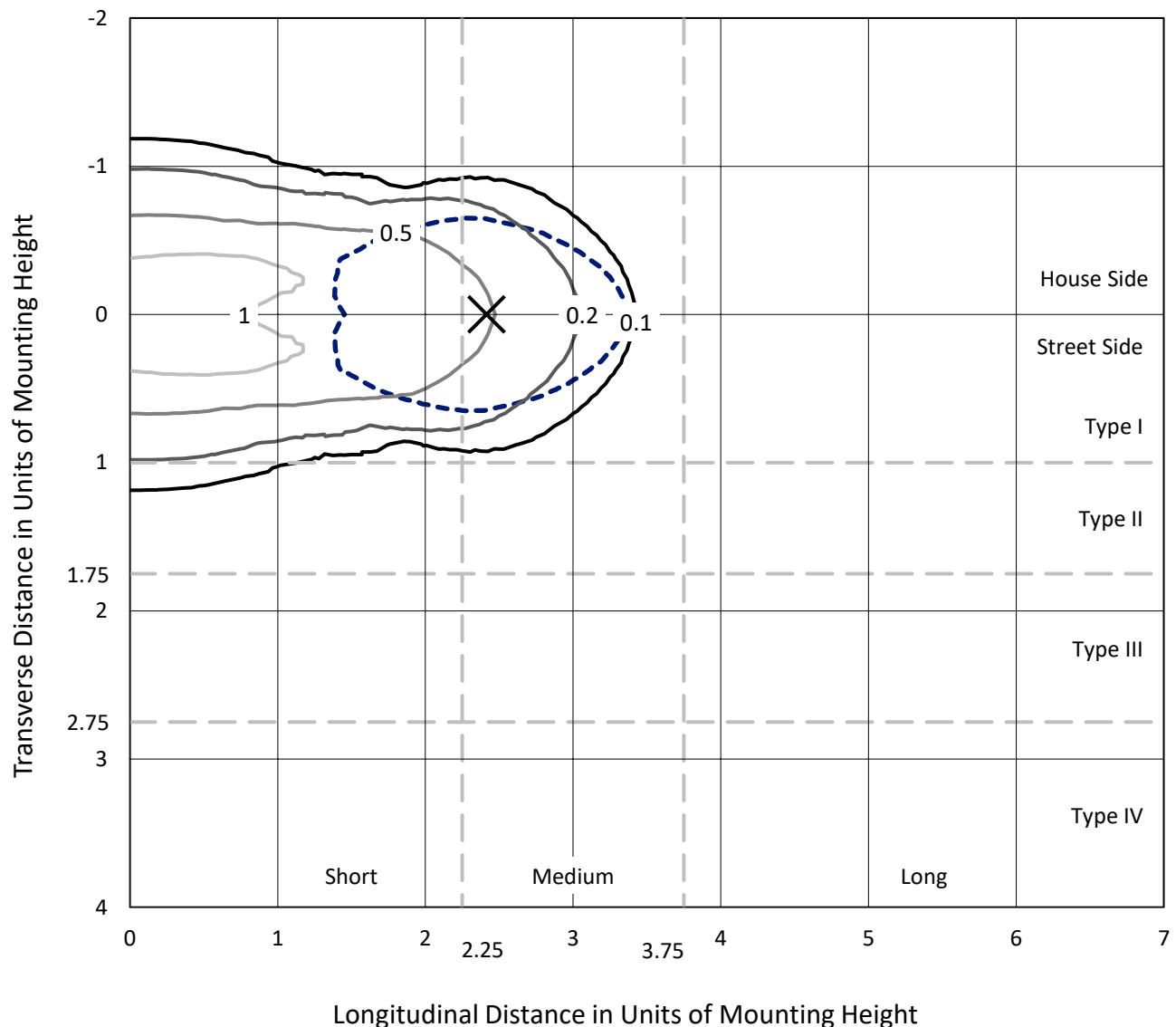


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

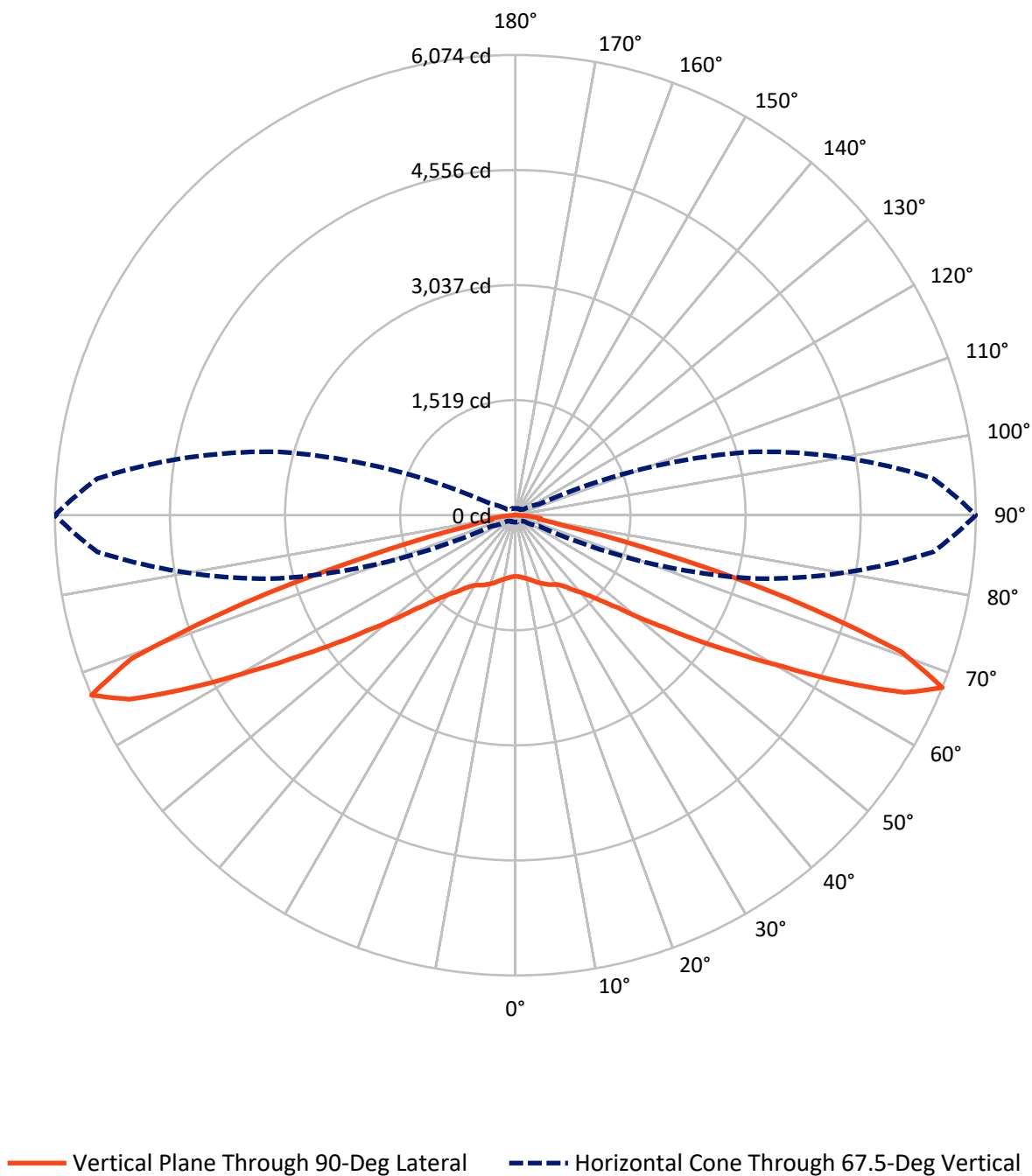


Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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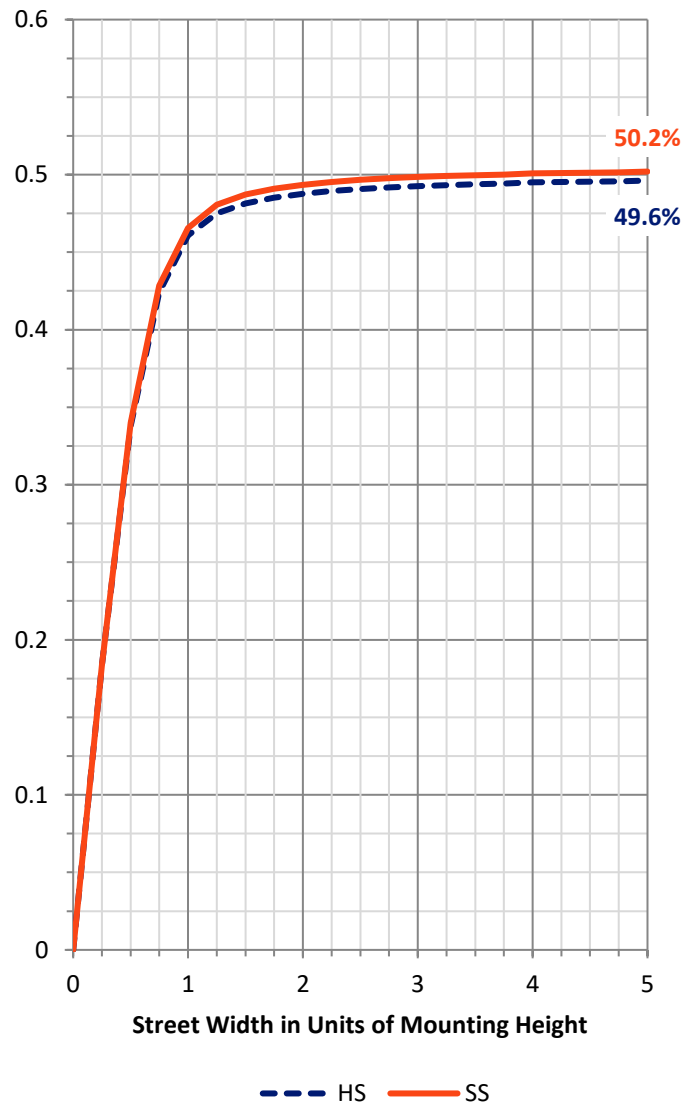
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2283.5	0.0	2283.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2283.5	0.0	2283.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4567.0	0.0	4567.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.6	1.8
10°-20°	257.9	5.6
20°-30°	431.7	9.5
30°-40°	584.8	12.8
40°-50°	740.7	16.2
50°-60°	925.4	20.3
60°-70°	1087.7	23.8
70°-80°	416.1	9.1
80°-90°	42.2	0.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4567.0	100.0
0°-180°	4567.0	100.0

Coefficient of Utilization



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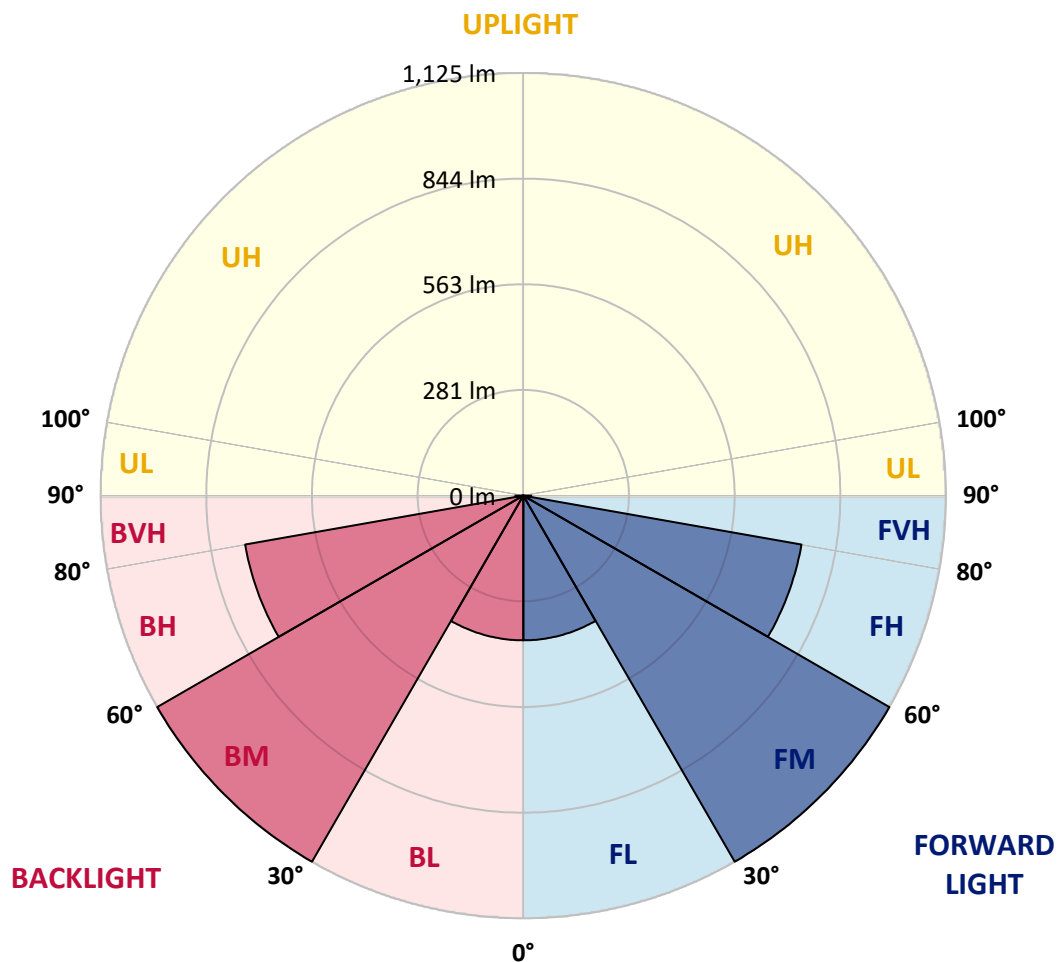
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	385.1	8.4			
FM	(30°-60°)	1125.4	24.6			
FH	(60°-80°)	751.9	16.5			G1/1800
FVH	(80°-90°)	21.1	0.5			G1/100
BL	(0°-30°)	385.1	8.4	B1/500		
BM	(30°-60°)	1125.4	24.6	B2/2500		
BH	(60°-80°)	751.9	16.5	B2/1000		G2/1000
BVH	(80°-90°)	21.1	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	808.5	808.5	808.5	808.5	808.5	808.5	808.5	808.5	808.5	808.5	808.5
2.5°	818.9	818.4	818.6	818.4	819.1	818.6	815.6	813.1	811.0	811.3	810.5
5°	836.3	836.6	836.8	835.6	837.3	836.3	831.5	827.5	823.4	821.9	821.4
7.5°	850.7	852.0	852.8	854.0	857.1	857.1	854.5	848.7	839.9	834.8	834.5
10°	865.1	866.2	868.4	872.5	877.5	882.3	881.3	873.5	862.1	853.5	851.5
12.5°	870.2	871.5	879.1	890.7	902.1	911.4	911.4	905.1	890.4	877.3	873.5
15°	852.5	854.8	868.4	893.2	923.1	943.5	948.1	939.2	923.6	903.3	898.8
17.5°	817.4	822.9	842.9	879.6	929.1	971.6	984.8	980.5	960.2	934.4	929.1
20°	779.7	785.7	807.0	855.5	924.1	988.1	1026.2	1027.3	1002.2	964.8	956.9
22.5°	738.2	742.7	770.1	827.0	908.9	991.8	1061.9	1079.4	1045.5	995.1	984.0
25°	691.7	696.7	725.3	786.8	880.3	987.5	1094.5	1133.0	1090.7	1027.5	1013.3
27.5°	647.2	649.2	679.8	742.2	842.6	976.4	1118.5	1182.3	1140.8	1054.3	1036.4
30°	604.4	609.2	636.3	698.0	799.4	954.7	1139.3	1238.4	1194.7	1082.4	1059.4
32.5°	559.1	565.0	594.3	656.8	756.2	922.1	1151.9	1299.9	1269.8	1127.9	1103.4
35°	515.7	519.4	549.0	609.7	713.9	884.1	1154.2	1369.2	1366.6	1196.9	1164.3
37.5°	471.1	476.7	506.5	564.7	669.2	843.9	1142.8	1442.8	1483.5	1292.8	1257.6
40°	428.4	433.2	462.5	521.2	618.3	794.8	1115.8	1510.0	1619.8	1391.4	1341.6
42.5°	381.9	383.1	415.3	474.9	568.5	737.9	1076.8	1570.0	1771.8	1523.7	1461.7
45°	329.0	332.3	362.1	420.8	511.4	674.2	1024.0	1619.5	1964.5	1707.0	1622.6
47.5°	276.2	278.9	306.3	364.2	448.9	601.1	942.5	1663.0	2162.2	1939.9	1829.2
50°	224.6	226.1	248.3	299.7	378.6	524.2	841.6	1676.9	2385.8	2269.7	2128.4
52.5°	177.5	179.8	196.8	237.0	303.5	433.5	732.6	1642.5	2646.8	2660.7	2461.4
55°	143.9	144.7	157.3	186.9	237.2	338.4	601.1	1546.7	2927.5	3161.7	2907.5
57.5°	123.9	124.4	131.5	147.9	182.6	255.2	466.3	1365.4	3179.6	3748.6	3421.9
60°	112.5	112.8	116.8	126.4	144.7	195.7	334.1	1109.4	3428.5	4401.9	4061.2
62.5°	105.5	105.5	108.2	113.5	122.4	150.2	242.0	800.4	3598.9	5064.7	4849.2
65°	98.6	98.6	100.7	104.4	109.3	122.9	178.8	522.0	3594.6	5547.5	5641.8
67.5°	90.8	90.8	92.3	96.1	98.9	105.7	138.1	341.9	3228.9	5536.9	6074.3
70°	81.4	81.4	83.5	86.7	89.0	93.3	109.0	233.9	2372.1	4727.6	5402.1
72.5°	72.1	72.3	73.6	76.9	78.6	81.2	90.5	163.9	1455.2	3219.1	3777.2
75°	61.7	62.2	63.5	66.8	68.3	69.3	76.4	116.8	736.2	1735.6	1976.1
77.5°	49.8	50.8	51.6	55.1	56.1	57.7	63.0	84.5	323.2	623.6	629.2
80°	36.4	37.7	40.0	43.2	44.0	45.0	48.0	59.9	146.4	284.8	309.3
82.5°	26.8	28.6	25.8	30.1	30.1	28.8	33.9	40.2	67.3	282.0	337.4
85°	14.7	14.9	13.4	15.4	16.4	16.2	18.0	19.7	32.6	188.2	194.0
87.5°	3.5	3.8	4.0	4.8	5.8	5.8	6.3	5.6	10.6	60.9	34.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)